Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-1782-PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No. PCT/JP2003/010293	International filing date (day/month/year) Priority date (day/month/year) 13 August 2003 (13.08.2003)						
International Patent Classification (IPC) or n F02D 41/04, F01N 3/24	<u> </u>						
Applicant	HITACHI, LTD.						
and is transmitted to the applicant ac 2. This REPORT consists of a total of	sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of sheets.							
3. This report contains indications relating to the following items:							
I Basis of the report							
II Priority							
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of invention							
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observations on the international application							
Date of submission of the demand	Date of completion of this report						
13 August 2003 (13.08.	.2003) 17 May 2004 (17.05.2004)						
Name and mailing address of the IPEA/JP	Authorized officer						
Facsimile No.	Telephone No.						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/010293

I.	Basis	of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
		the claims:
		pages, as originally filed
		pages, as amended (together with any statement under Article 19
		pages, filed with the demand
		pages, filed with the letter of
		the drawings:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
		the sequence listing part of the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of,
2.	the in	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing:
	H	contained in the international application in written form.
	H	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.
	H	furnished subsequently to this Authority in computer readable form.
i	Ħ	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets/fig
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	in thi	scement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 0.17).
*	Any r	eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP03/10293

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement						
Novelty (N)	Claims	4-10	YES			
	Claims	1-3	NO			
Inventive step (IS)	Claims	5-10	YES			
	Claims	1-4	NO			
Industrial applicability (IA)	Claims	1-10	YES			
	Claims		NO			

2. Citations and explanations

Document 1: JP, 11-141388, A (Robert Bosch GmbH.), 25 May, 1999, page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14 & DE, 1973956, A

Document 2: JP, 10-220267, A (Toyota Motor Corp.), 18 August, 1998, Full text; all drawings (Family: none)

Because the inventions described in claims 1-3 are described in document 1 cited in the ISR (page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14), they do not appear to be novel or to involve an inventive step.

Because the invention described in claim 4 is described in document 1 cited in the ISR (page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14), it does not appear to involve an inventive step. As can be seen in the description in document 2, conducting homogenous stoichiometric combustion in an internal combustion engine controller comprising a three-way catalyst is a well-known art.

The inventions relating to claims 5-10 are not described in any of the documents cited in the ISR; nor are they obvious to a party skilled in the art.